

Title (en)  
PHOTOVOLTAIC POWER DEVICE AND WIRING

Title (de)  
PHOTOVOLTAIKSTROMVORRICHTUNG UND VERKABELUNG

Title (fr)  
DISPOSITIF ET CÂBLAGE D'ALIMENTATION PHOTOVOLTAÏQUE

Publication  
**EP 3252909 B1 20200101 (EN)**

Application  
**EP 17171489 A 20170517**

Priority  
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• US 201662395461 P 20160916

Abstract (en)  
[origin: EP3252909A1] Various implementations described herein are directed to employing photovoltaic strings including a photovoltaic power device with a specialized wiring configuration, which enables high string efficiency without incurring excessive wiring costs. Implementations may include a cable built into photovoltaic generators that carry one portion of the current, and other portions of the current may be carried by direct-current (DC) or alternating-current (AC) cables bypassing the photovoltaic generators.

IPC 8 full level  
**H02J 3/38** (2006.01)

CPC (source: CN EP US)  
**H02J 3/38** (2013.01 - US); **H02J 3/381** (2013.01 - EP US); **H02S 10/00** (2013.01 - CN); **H02S 40/30** (2014.12 - CN); **H02S 40/32** (2014.12 - EP US); **H02S 40/34** (2014.12 - EP US); **H02S 50/10** (2014.12 - EP US); **H02J 1/00** (2013.01 - EP US); **H02J 7/35** (2013.01 - EP US); **H02J 2300/24** (2020.01 - EP US); **H02J 2300/26** (2020.01 - EP US); **Y02E 10/56** (2013.01 - EP)

Cited by  
EP4024688A3; US10230310B2; US12027849B2; US11962243B2; US11598652B2; US11620885B2; US11538951B2; US11687112B2; US11824131B2; US11867729B2; US12003215B2; US11579235B2; US11961922B2; US11682918B2; US11929620B2; US12027970B2; US11575260B2; US11575261B2; US11594882B2; US11594881B2; US11594880B2; US11658482B2; US11735910B2; US11728768B2; US11870250B2; US11979037B2; US12003107B2; US10637393B2; US10116217B2; US10097007B2; US9869701B2; US10461687B2; US11296650B2; US11888387B2; US10778025B2; US10931119B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 3252909 A1 20171206**; **EP 3252909 B1 20200101**; CN 107437926 A 20171205; CN 107437926 B 20210525; CN 113131859 A 20210716; EP 3687019 A1 20200729

DOCDB simple family (application)  
**EP 17171489 A 20170517**; CN 201710362679 A 20170522; CN 202110496807 A 20170522; EP 19217486 A 20170517